

What is claimed is:

1. A method of displaying icons within a data processing system having a display screen, comprising the steps of:

first determining a quantity of a plurality of icons to be displayed on a display screen of a data processing system;

second determining a designated area of said display screen for displaying said plurality of icons; and

automatically scaling each of said plurality of icons in response to said quantity of said plurality of icons and said designated area such that said plurality of icons can be displayed in said designated area of said display screen.

2. The method of Claim 1, wherein said step of first determining a quantity of a plurality of icons to be displayed on a display screen of a data processing system comprises first determining a quantity of plurality icons defined by vector graphics to be displayed on a display screen of a data processing.

3. The method of Claim 1, wherein said step of first determining a quantity of a plurality of icons to be displayed on a display screen of a data processing system comprises first determining a quantity of a plurality of icons defined by bitmapped graphics to be displayed on a display screen of a data processing system.

7. The method of Claim 4, wherein said step of displaying said plurality of icons on said display screen, comprises displaying said plurality of icons on a display screen, wherein said display screen has a fixed pixel width and a fixed pixel height.

1 8. A icon scaling system for use with a data processing
2 system having a display, said icon scaling system
3 comprising:

4 a calculation routine that determines a quantity of
5 a plurality of icons to be displayed on a display screen
6 of a data processing system;

7 a boundary routine that determines a designated area
8 of said display screen for displaying said plurality of
9 icons; and

10 a scaling routine that automatically scales said
11 plurality of icons in response to quantity of a plurality
12 of icons and said designated area such that said
13 plurality of icons can be displayed in said designated
14 area of said display screen.

1 9. The system of Claim 8, wherein said plurality of
2 icons are defined by vector graphics.

1 10. The system of Claim 8, wherein said plurality of
2 icons are defined by bitmapped graphics.

1 11. The system of Claim 8, further comprising a display
2 routine that displays said plurality of icons on said
3 display screen.

1 12. The system of Claim 8, wherein said plurality of
2 icons comprise a graphic image and a text image.

1 13. The system of Claim 8, wherein said plurality of
2 icons comprise only a text image.

1 14. The system of Claim 8, wherein said display screen
2 has a fixed pixel width and a fixed pixel height.

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1 15. An article of manufacture for use in a data
2 processing system for scaling icons on a display screen,
3 the article of manufacture comprising computer readable
4 storage media including program logic embedded therein
5 that causes control circuitry to perform the steps of:

6 first determining a quantity of a plurality of icons
7 to be displayed on a display screen of a data processing
8 system;

9 second determining a designated area of said display
10 screen for displaying said plurality of icons; and

11 automatically scaling said plurality of icons in
12 response to said quantity of said plurality of icons and
13 said designated area such that said quantity of said
14 plurality of icons can be displayed in said designated
15 area of said display screen.

1 16. The article of manufacture of Claim 15, wherein said
2 step of first determining a quantity of a plurality of
3 icons to be displayed on a display screen of a data
4 processing system comprises first determining a quantity
5 of a plurality of icons defined by vector graphics to be
6 displayed on a display screen of a data processing.

1 17. The article of manufacture of Claim 15, wherein said
2 step of first determining a quantity of a plurality of
3 icons to be displayed on a display screen of a data
4 processing system comprises first determining a quantity
5 of a plurality of icons defined by bitmapped graphics to
6 be displayed on a display screen of a data processing

1 system.

1 18. The article of manufacture of Claim 15, further
2 comprising the step of displaying said plurality of icons
3 on said display screen.

1 19. The article of manufacture of Claim 15, further
2 comprising the step of displaying said plurality of icons
3 on said display screen, wherein said plurality of icons
4 comprise a graphic image and text image.

1 20. The article of manufacture of Claim 15, further
2 comprising the step of displaying said plurality of icons
3 on said display screen, wherein said plurality of icons
4 only comprise a text image.

1 21. The article of manufacture of Claim 18, wherein said
2 step of displaying said plurality of icons on said
3 display screen, comprises displaying said plurality of
4 icons on a display screen, wherein said display screen
5 has a fixed pixel width and a fixed pixel height.

displaying said plurality of icons within said determined size of said designated area by at least one of a) automatically scaling said icons; b) displaying a portion of each one of said plurality of icons; and c) creating a plurality of selectable displayed screen pages wherein each screen page has a portion of said plurality of icons displayed within said determined size of said designated area.

1 23. A method, for displaying icons within a data
2 processing system having a display screen, comprising the
3 steps of:

4 determining a size of a designated area of a display
5 screen for displaying a plurality of icons;

6 utilizing a predetermined minimum size and a
7 predetermined maximum size for an individual icon;

8 displaying said plurality of icons within said
9 determined size of said designated area, based upon said
10 predetermined minimum size and said predetermined maximum
11 size, by at least one of a) automatically scaling said
12 icons; b) displaying a portion of each one of said
13 plurality of icons; and c) creating a plurality of
14 selectable displayed screen pages wherein each screen
15 page has a portion of the plurality of icons displayed
16 within said determined size of said designated area.

1 24. The method of claim 23 wherein said predetermined
2 minimum size and said predetermined maximum size are
3 predetermined based on user input.

means for displaying said plurality of icons within said determined size of said designated area by at least one of a) automatically scaling said icons; b) displaying a portion of each one of said plurality of icons; and c) creating a plurality of selectable displayed screen pages wherein each screen page has a portion of said plurality of icons displayed within said determined size of said designated area.

1 26. A data processing system for displaying icons on a
2 display screen, comprising:

3 means for determining a size of a designated area of
4 a display screen for displaying a plurality of icons;

5 means for utilizing a predetermined minimum size and
6 a predetermined maximum size for an individual icon;

7 means for displaying said plurality of icons within
8 said determined size of said designated area, based upon
9 said predetermined minimum size and said predetermined
10 maximum size, by at least one of a) automatically scaling
11 said icons; b) displaying a portion of each one of said
12 plurality of icons; and c) creating a plurality of
13 selectable displayed screen pages wherein each screen
14 page has a portion of the plurality of icons displayed
15 within said determined size of said designated area.

1 27. The data processing system of claim 26 wherein said
2 predetermined minimum size and said predetermined maximum
3 size are predetermined based on user input.

1 28. The data processing system of claim 26 wherein the
2 data processing system is a hand held device.

displaying said plurality of icons within said determined size of said designated area by at least one of a) automatically scaling said icons; b) displaying a portion of each one of said plurality of icons; and c) creating a plurality of selectable displayed screen pages wherein each screen page has a portion of said plurality of icons displayed within said determined size of said designated area.

1 30. An article of manufacture for use in a data
2 processing system for scaling icons on a display screen,
3 the article of manufacture comprising computer readable
4 storage media including program logic embedded therein
5 that causes control circuitry to perform the steps of:

6 determining a size of a designated area of a display
7 screen for displaying a plurality of icons;

8 utilizing a predetermined minimum size and a
9 predetermined maximum size for an individual icon;

10 displaying said plurality of icons within said
11 determined size of said designated area, based upon said
12 predetermined minimum size and said predetermined maximum
13 size, by at least one of a) automatically scaling said
14 icons; b) displaying a portion of each one of said
15 plurality of icons; and c) creating a plurality of
16 selectable displayed screen pages wherein each screen page
17 has a portion of the plurality of icons displayed within
18 said determined size of said designated area.

1 31. The article of manufacture claim 23 wherein said
2 predetermined minimum size and said predetermined maximum
3 size are predetermined based on user input.